DERWENT-ACC-NO: 1980-K2944C

DERWENT-WEEK: 198043

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TITLE: Pyrometer for solar radiation measurement - uses two concentric hemispherical filters separated by vacuum space and with outer filter cooled by air supplied from motor driven fan

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PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

FR 2445955 A September 5, 1980 N/A 000 N/A

INT-CL (IPC): F24J003/02; G01J005/02

ABSTRACTED-PUB-NO: FR 2445955A

BASIC-ABSTRACT: The pyranometer used to measure solar radiation contains filters surrounding the detector. Connection affects the filters to disturb the measurement precision and is overcome by surrounding the detector by a vacuum. The pyranometer comprises a hemispherical selective filter (20) sealed onto a circular base (12) to form a space (22) in which a detector (16) is mounted in a vacuum. A second similar selective filter (24) is sealed to an annular support (14) to form a sealed space (28) between the filters in which a vacuum exists.

Cooling air is directed onto the outer filter by nozzles (36) supplied from a motor (32) driven fan (30) via passages (38) in the base. This cooling action together with the vacuum conditions between filters and detectors eliminates connection heating of the filters.

TITLE-TERMS:

PYROMETER SOLAR RADIATE MEASURE TWO CONCENTRIC
HEMISPHERICAL FILTER SEPARATE
VACUUM SPACE OUTER FILTER COOLING AIR SUPPLY MOTOR DRIVE
FAN

DERWENT-CLASS: Q74 S03

EPI-CODES: S03-A03; S03-C09;